

## REMARKS

Claims 1-9, 11-21, 23-26, 28-31, and 33-25 are pending in this application. By this Amendment, claims 9, 21, 26, and 31 are amended and claims 10, 22, 27, and 32 are canceled to be incorporated into their independent claims respectively. Reconsideration and withdrawal of the rejection in view of the foregoing amendments and the following remarks is respectfully requested.

Entry of the amended claims is proper under 37 C.F.R. §1.116 since the amendments: (1) place the application in condition for allowance (for the reasons discussed herein); (2) do not raise any new issues requiring further search and/or consideration (since the amendments amplify issues previously discussed throughout prosecution without incorporating additional subject matter); (3) satisfy a requirement of form asserted in the previous Office Action; and/or (4) place the application in better form for appeal (if necessary). Entry is proper under 37 CFR §1.116.

The Office Action rejects claims 9-10, 10-17, 19-22, 24-27, 29-32 and 34-35 under 35 U.S.C. §102(b) by U.S. Patent 6,567,032 to Mullaly. The rejection is respectfully traversed for the following reasons.

Claims 9 recites generating a signal in a television, and sending the signal from the television to a personal computer, wherein the signal controls a function performed by the personal computer. Mullaly does not teach or suggest these features.

Mullaly discloses a system using a pointing device for direct communication with a pointer-compatible appliance. Mullaly discloses that audio information signal is transmitted from TV 226 to VCR 230 along existing transmission paths. More specifically, the pointer instructs the television to send the audio information signal to VCR 230. Also, Mullaly discloses two-way communication between the pointer and each appliance Mullaly does not

teach or suggest generating a signal in a television, sending the signal from the television to a personal computer where the signal controls a function performed by the personal computer.

At best, Mullaly's FIG. 13(b) discloses that an image is transmitted from a computer to a pointing device and then to a personal computer for viewing on the personal computer. Accordingly, claim 9 defines patentable subject matter. Claims 11-16 depend from claim 9, and therefore defines patentable subject matter for at least the same reasons, as well as their added features and the combination thereof.

Claims 17 recites an encoder which encodes a signal generated by a television, and a transmitter which transmits the encoded signal, wherein the encoded signal includes data for controlling a personal computer.

Mullaly does not disclose an encoder which encodes a signal generated by a television. Rather, Mullaly discloses pointer instructing appliances. Mullaly does not teach or suggest an encoded signal generated by the television controlling a personal computer. The Office Action appears to assert that Mullaly inherently contains an encoder and transmitter. However, Applicant respectfully disagrees as an encoder to encode a signal generated by a television is not inherent. As such, independent claim 17 defines patentable subject matter. Claims 18-20 depend from claim 17, and therefore define patentable subject matter for at least the same reasons, as well as their added features and the combination thereof.

Claim 21 recites encoding a signal output from a television circuit, and sending the encoded signal to a personal computer, wherein the encoded signal includes data for controlling a personal computer.

For at least the reasons set forth above, independent claim 21 defines patentable subject matter. Claims 23-25 depend from claim 21, and therefore define patentable subject matter for at least the same reasons, as well as their added features and the combination thereof.

Claim 26 recites receiving a signal output from a television, and decoding the signal for input into a circuit of a personal computer, wherein the signal includes information for controlling a function performed by a personal computer.

For at least the reasons set forth above, Mullaly does not teach or suggest all the features of independent claim 26. The Office Action never address features relating to decoding a signal input into a circuit of a personal computer. Therefore, independent claim 26 defines patentable subject matter. Claims 28-30 depend from claim 26, and defines patentable subject matter for at least the same reasons, as well as their added features and the combination thereof.

Claim 31 recites a first interface unit coupled to a television, and a second interface unit coupled to a personal computer, wherein the first interface unit sends a signal generated in the television to the personal computer over a communications link and the signal controls a function performed by the personal computer. For at least the reasons set forth above, independent 31 defines patentable subject matter. Claims 33-35 depend from claim 31, and therefore define patentable subject matter for at least the same reasons, as well as their added features and the combination thereof.

The Office Action rejects claims 1-8, 10-11, 18, 23, 28 and 33 under 35 U.S.C. §103(a) over U.S. Patent 5,850,340 to York in view of Mullaly. This rejection is respectfully traversed for the following reasons.

Claim 1 recites, “a TV transmission and receiving unit for receiving the first packet signal, transmitting the received first packet signal to the outside and receiving the second packet signal from the outside, a computer transmission and receiving unit for receiving the second packet signal, transmitting the received second packet signal to the outside and receiving the first packet signal from the outside, a TV decoding unit for receiving the second packet signal from the TV transmission and receiving unit, decoding the same and recovering into an original signal, a computer decoding unit for receiving the first packet signal from the computer transmission and receiving unit, decoding the received first packet signal and recovering into an original signal, and a transmission line connected between the TV transmission and receiving unit and the computer transmission and receiving unit for transmitting the first packet signal and the second packet signal.” Because York and Mullaly, alone or in combination, fails to teach or suggest all the features in claim 1, a *prima facie* case of obviousness has not been established.

York discloses a system in which a remote module and a computer module interacting to communicate with one another. As the examiner has indicated in the Final Office Action, York does not disclose transmission lines connecting the TV and computer transmission/receiving unit, but instead utilizes the wireless RF, and packet signals related to the computer and TV outputs, nor does York disclose a TV signal. In addition, York’s system integrated televisions and PCs in a manner such that the computer can completely and fully control the television and other home entertainment devices. See column 1, lines 27-30. Thus, in his system, all signals, for example, from a remote pointer 14, a remote keyboard 13, and a RF video/audio transmitter are initially transmitted to the computer module 5 and then

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transmitted to the remote module 12. Thus, in this system, York's remote module 12 only receives the signals and York lacks a TV transmission and receiving unit to transmit and receive signals. Mullaly does not teach or suggest the features in claim 1 missing from York. As such, it is respectfully submitted that claim 1 defines patentable subject matter.

Combining York and Mullaly produces a system which uses a transmission line to connect the computer and a television to allow the computer having a complete control over the television, not for the television to control the computer. In other words, in the combination of York and Mullaly, the computer will be able to transmit information to the television, not visa versa. Thus, even if a teaching or suggestion was in existence at the time the claimed invention was made to combine York and Mullaly, that combination would not provide the television with a control over a computer. Absent these features, it is respectfully submitted that the York-Mullaly combination does not teach or suggest all the features of claim 1.

Claim 3 recites, a TV transmission and receiving unit for transmitting the first packet signal to the outside and receiving a second packet signal from the outside.

As noted above, the cited combination of references does not teach or suggest such an interactive system. York not only does not disclose a transmission line between a computer and a television, but also lacks a TV transmission and receiving unit to transmit signals to the outside, for example, to the computer. As for Mullaly, a pointer instructs all actions between appliances and achieved two-way communication between the pointer and each appliance. Therefore, the combination of York and Mullaly lacks the TV transmission and receiving unit, which enables the TV to control the computer. For at least these reasons, it is respectfully

submitted that independent claim 3 defines patentable subject matter over the York-Mullaly combination. Claim 9 depends from claim 3 and therefore also defines patentable subject matter.

Claim 5 recites a computer transmission and receiving unit for transmitting a second packet signal to the outside and receiving a first packet signal output from a television.

For at least similar reasons assert forth above, the cited combination does not teach or suggest all features of claim 5. York does not disclose a computer transmission unit to transmit and receive signals from a television. Rather, York discloses computer module 5 receiving signals not from the remote module 12, but, for example, from remote keyboard 13 and remote pointer 14 directly. Mullaly does not disclose a computer transmitting information to a television. He merely discloses a pointer instructing computers. Absent of these feature, it is respectfully submitted that the York-Mullaly combination does not teach or suggest all the features of independent claim 5 or any of it's dependent claims.

Claim 7 recites that a computer operation method comprising receiving a mouse data, a keyboard data and a control data from the TV.

York does not disclose a computer receiving mouse, keyboard and control data from the TV. To make up for these deficiencies, Mullaly was cited. Mullaly discloses a pointer to instruct the TV to send an audio signal to the stereo. However, although York suggests that the keyboard signals can be received from wireless remotes, the absence of signals coming from the TV will not enable the TV to control the computer. Also, Mullaly does not teach or suggest that in absent of the pointer, TV would send any signals. Therefore, Mullaly does not

make up for the deficiencies of York. Accordingly, the York-Mullaly combination does not teach or suggest all the features of independent claim 7.

Claim 8 recites a TV (Television set) operation method that includes outputting a mouse data, a keyboard data and a control data to the computer.

Similar to claim 7, York does not disclose a TV outputting a mouse, keyboard and control data to the computer. In addition, Mullaly merely discloses a pointer to instruct the TV to send an audio signal to the stereo. Mullaly shows two-way communication between the pointer and each appliance, but not between two independent appliances. Since York's TV does not output data and Mullaly does not teach a TV sending data without an instruction from a pointer, it is clear that it would not have been obvious to one skilled in the art at the time of the invention to modify York as alleged. For at least these reasons, it is respectfully submitted that independent claim 8 defines patentable subject matter.

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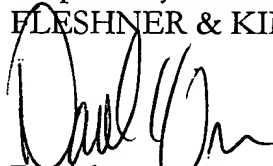
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**CONCLUSION**

In view of the foregoing, it is respectfully submitted that the application is in condition for allowance. If the Examiner believes that any additional changes would place the application in better condition for allowance, the Examiner is invited to contact the undersigned attorney, **David C. Oren**, at the telephone number listed below.

To the extent necessary, a petition for an extension of time under 37 C.F.R. 1.136 is hereby made. Please charge any shortage in fees due in connection with the filing of this, concurrent and future replies, including extension of time fees, to Deposit Account 16-0607 and please credit any excess fees to such deposit account.

Respectfully submitted,  
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